Introduction to Computer Science
Laboratory 8

1. Finish the last 4 exercises present in the 7^{th} tutorial.

2. Finish the exercises present in the 8^{th} tutorial.

3. Design and implement a C program that receives as a input a number N and a sequence of N integer numbers. This program should store the sequence in an array and calculate the mean of said sequence.

4. Write a C program that takes as input a word from standard input and determines if is a palindrome or not. A palindrome is a word that reads the same backwards and forwards. e.g. “racecar”.

5. Write a C program that receives as an input a number N and a sequence of M elements (with M >= N), then calculates the N^{th} smallest number in the sequence.

6. Write a program that takes as input a sequence of integer numbers and a integer number N. If N is in the sequence, the program should print N’s position, in the other case the program should print -1.

7. Write a C program that, given a sequence of integer numbers classifies it between even and odd numbers. Then prints the even numbers first and the odd elements last.

8. Design and implement a C program that takes as input a integer number K and a sequence of integer numbers. This program should count all the sequence numbers that are greater than K.